

CABLE BUNDLE THROUGH CONCRETE FLOOR/WALL OR BLOCK WALL ASSEMBLY

F-RATING = 2-HR.

T-RATING = 0-HR. OR 1/2-HR.

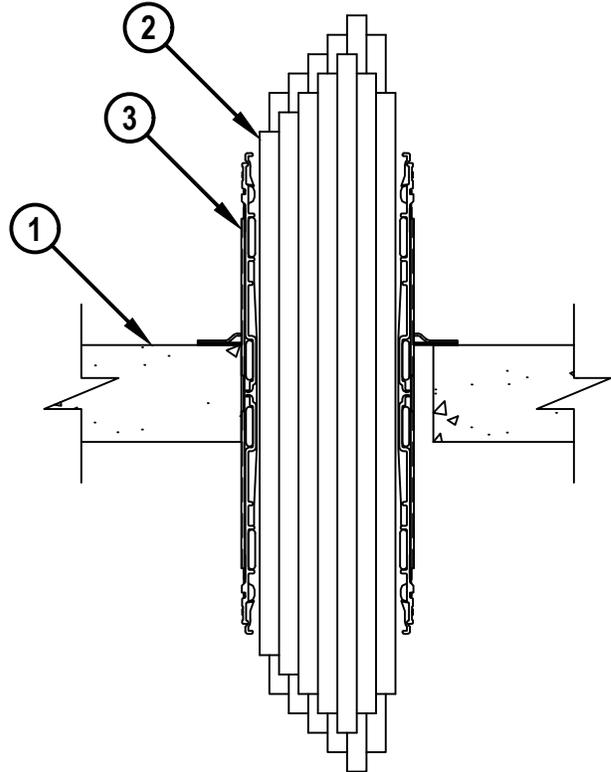
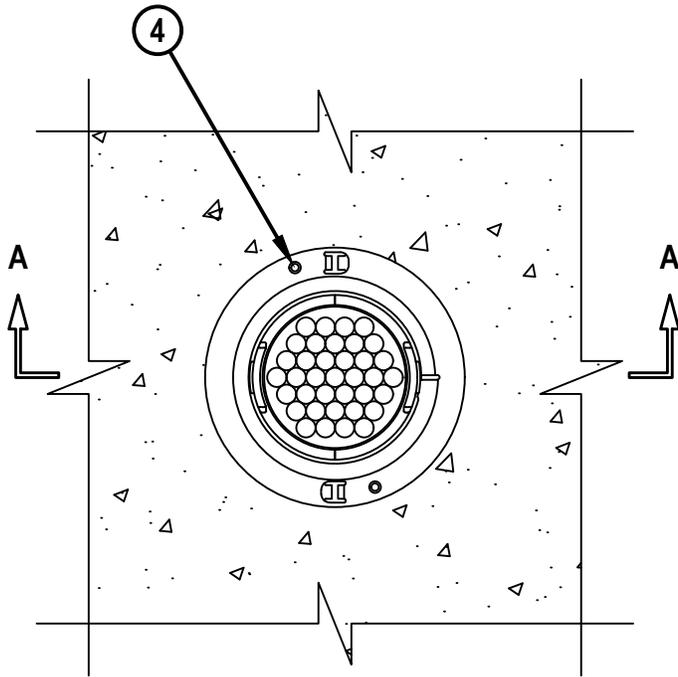
L-RATING AT AMBIENT = LESS THAN 1 CFM / DEVICE (SEE TABLE)

L-RATING AT 400°F = LESS THAN 1 CFM / DEVICE (SEE TABLE)

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TOP VIEW

SECTION A-A



1. CONCRETE FLOOR OR WALL ASSEMBLY (2-HR. FIRE-RATING) :
 - A. LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE FLOOR OR WALL (MINIMUM 2-1/2" THICK).
 - B. STEEL FLOOR UNIT/FLOOR ASSEMBLY - LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE FLOOR (MINIMUM 2-1/2" THICK).
 - C. ANY UL/cUL CLASSIFIED CONCRETE BLOCK WALL.
2. CABLE BUNDLE TO BE A COMBINATION OF ANY OF THE FOLLOWING :
 - A. MAXIMUM 100 PAIR NO. 24 AWG TELEPHONE CABLE WITH PVC JACKET.
 - B. MAXIMUM 7/C NO. 12 AWG COPPER CONDUCTOR CONTROL CABLE WITH PVC OR XLPE JACKET AND INSULATION.
 - C. MAXIMUM 4/0 AWG SHIELDED PRINTER CABLE WITH PVC JACKET.



HILTI, Inc.
Plano, Texas USA (800) 879-8000

Sheet	1 of 2
Scale	13/64" = 1"
Date	Jan. 02, 2020

Drawing No.
**CAJ
3283h**

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- D. MAXIMUM 4 PAIR NO. 22 AWG CAT 6 COMPUTER CABLE.
 - E. MAXIMUM RG 6/U COAXIAL CABLE.
 - F. MAXIMUM 1/2" DIAMETER FIBER-OPTIC CABLE (24 FIBER) WITH PVC OR PE JACKET AND INSULATION.
 - G. MAXIMUM 20/C NO. 22 AWG SHIELDED PRINTER CABLE WITH PVC JACKET.
 - H. MAXIMUM 2/C NO. 18 AWG POWER OR NON-POWER LIMITED FIRE ALARM CABLE WITH OR WITHOUT METAL JACKET (MANUFACTURED BY AFC CABLE SYSTEMS, INC).
 - I. MAXIMUM 1/4" DIAMETER S-VIDEO CABLE CONSISTING OF MAXIMUM 24 AWG 75 OHM COAX OR TWISTED PAIR CABLE WITH PE INSULATION AND PVC JACKET.
 - J. ANY CABLES, METAL CLAD CABLES, OR ARMORED CABLES CURRENTLY LISTED UNDER THE THROUGH PENETRATING PRODUCTS CATEGORY.
 - K. MAXIMUM 3/C NO. 12 AWG METAL CLAD CABLE.
3. HILTI CP 653 (BA) SPEED SLEEVE (2" OR 4"), HILTI CP 653 4" BA ILS SPEED SLEEVE, OR HILTI CFS-SL GA L ILS SPEED SLEEVE SLID INTO AND CENTERED WITHIN FLOOR OR WALL. DEVICE FLANGES SPUN CLOCKWISE ONTO DEVICE THREADS OVER SMOKE GASKET, BUTTING TIGHTLY TO TOP SIDE OF FLOOR, OR BOTH SIDES OF WALL. DEVICE FLANGE MAY BE INSTALLED ON BOTTOM SIDE OF FLOOR WHEN HILTI FS-ONE MAX INTUMESCENT FIRESTOP SEALANT IS USED ON BOTTOM OF FLOOR.
4. SECURE DEVICE FLANGE TO TOP OF FLOOR WITH TWO 1-1/4" LONG CONCRETE SCREWS OR ANCHORS.

MAX CABLE FILL	CABLE TYPE	SEALANT / GASKET		SEALANT / GASKET	
		L RATING, CFM / SQ FT		L RATING, CFM / DEVICE	
		AMBIENT	400°F	AMBIENT	400°F
0%	—	1	2	LESS THAN 1	LESS THAN 1
100%	ANY CABLES (ITEM NO. 2) IN ANY COMBINATION	7	7	LESS THAN 1	LESS THAN 1

- NOTES :
1. MAXIMUM DIAMETER OF OPENING = 3" (FOR 2" DEVICE) OR 5" (FOR 4" DEVICE).
 2. CABLES MAY REPRESENT 0 TO 100% VISUAL FILL OF DEVICE.
 3. MINIMUM ANNULAR SPACE BETWEEN DEVICE AND PERIPHERY OF OPENING = 0".
 4. [OPTIONAL] AS AN ALTERNATE TO SMOKE GASKET MINIMUM 1/2" DEPTH HILTI FS-ONE MAX INTUMESCENT FIRESTOP SEALANT FLUSH WITH TOP SURFACE OF FLOOR WITH AN ADDITIONAL 1/4" BEAD APPLIED AT POINT OF CONTACT. FIRESTOP SEALANT IS REQUIRED ON BOTH SIDES OF A WALL.
 5. [OPTIONAL] AS AN ALTERNATE TO FS-ONE MAX, HILTI CP 618 FIRESTOP PUTTY MAY BE INSTALLED ON TOP SIDE OF FLOOR, OR BOTH SIDES OF A WALL.
 6. L-RATING APPLIES ONLY WHEN HILTI FS-ONE MAX OR SMOKE GASKET IS USED.



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Sheet	2 of 2
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